According to a further embodiment of the process of the invention, the first polymerization step (I) comprises a step (i) of homopolymerization of propylene or of copolymerization of propylene with another α-olefin to form a crystalline polypropylene component and a step (ii) of copolymerization of ethylene with one or more α-olefins, optionally in the presence of a diene, to form a low crystallinity or non-crystalline ethylene/α-olefin copolymer component, said steps (i) and (ii) being carried out in an arbitrary order, so as to form a propylene block copolymer product, for instance as described in WO 00/11057. In the second polymerization stage (III), amorphous polyethylene or block polyethylene containing blocks of amorphous and crystalline polyethylene, or LLDPE, are produced.

On page 17, delete the second paragraph and insert in its place:

The substituents R^1 are preferably aryl groups, more preferably substituted in the 2 and 6 positions; according to preferred embodiments of the invention, R^1 is selected from the group consisting of phenyl, 2,6-dimethyl-phenyl, 2,6-diisopropyl-phenyl and 2,4,6-trimethyl-phenyl.

On page 22, delete paragraph 4 and insert in its place:

Examples of alumoxanes suitable as activating cocatalysts in the catalyst system according to the present invention are methylalumoxane (MAO), 2,4,4-trimethyl-pentylalumoxane (TIOAO), 2-methyl-pentylalumoxane and 2,3-dimethyl-butylalumoxane. Mixtures of different alumoxanes can also be used.

In the Claims

Please enter the following amended claims.

1. (Amended) A multi-stage process for the polymerization of olefins comprising:

(I) a first polymerization stage, wherein one or more olefins of the formula CH_2=CHR, wherein R is selected from the group consisting of hydrogen, a linear or branched, saturated or unsaturated C_1-C_{10} alkyl, a cycloalkyl and an aryl radical, are polymerized in one or more reactors, in the presence of a catalyst comprising the product of the reaction between an alkyl-Al compound and a solid component comprising at least one compound of a transition metal M^I chosen from Ti and V, and not containing M^I-π bonds,